Special Issue

Titanium in Medical and Dental Applications

Message from the Guest Editor

This Issue presents papers that summarize the advantages provided by titanium and its alloys in medical and dental applications. The following aspects are considered:

- Advanced fabrication techniques; thermomechanical processing, including methods of severe plastic deformation (SPD) to improve mechanical properties;
- The relationship between the microstructure, mechanical, and functional properties of Ti and its alloys;
- The characterization of the physical, chemical, and mechanical properties of titanium and its alloys that are crucial for their medical applications;
- Research and development of surface modification techniques, including bio-functional coatings;
- An examination of the functional and in-vitro biological properties of titanium implants.

Guest Editor

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Deadline for manuscript submissions

closed (20 March 2020)

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About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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